

CLAIMS

1. A contactless electronic electromagnetic communication device of the type comprising in a module (MC):

- means (10) of receiving electromagnetic signals,
- means (18, 20, 24) of processing the electromagnetic signals received, and

- means (26) of rectifying and filtering the electromagnetic signals received in order to supply, at two output terminals (A, B), a supply voltage (V_{cc}) to the processing means (18, 20, 24),

characterised in that it also comprises

- means (PC, MO, TM 138) of supporting an electrical power source (48, 70), and

- means (36, 38, 56, 58, 80, 82, 100, 102, 104, 106, 132, 140) of connecting the said electrical power source (48, 70) to the said output terminals (A and B) of the rectifying and filtering circuit (26).

2. A device according to Claim 1, characterised in that the connection means comprise a switch (60, 86, 110, 134, 142) for establishing or cutting off the connection between the power source (48, 70) and the terminals (A, B) of the rectifying and filtering circuit (26).

3. A device according to Claim 1 or 2, characterised in that the connection means comprise:

- in the module (MC), conductors (32, 34) for connecting the output terminals (A, B) of the

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rectifying and filtering circuit to first contact terminals (36, 38, 82, 104, 106),

- in the support means, conductors (50, 52) for connecting the electrical power source (48, 70) to second contact terminals (56, 58, 80, 100, 102, 132, 140), and

- means for connecting together the said first and second contact terminals.

4. A device according to Claim 3, in its application to a contactless module (MC) carried by a card of the bank type, characterised:

- in that the means of supporting the electrical power source comprise a card holder (PC), and

- in that the means of connecting and holding the said first (36, 38) and second (56, 58) contact terminals comprise means of guidance and abutment (42, 44, 46) for the card (40) in the card holder (PC) so as to make the said first and second contact terminals coincide.

5. A device according to Claim 3, in its application to a contactless module (MC) disposed in a case (84), characterised:

- in that the means of supporting the electrical power source comprise a watch (MO) having its own electrical power (70),

- in that the first contact terminals comprise a connector (82) disposed on the case (84) of the module,

- in that the second contact terminals comprise a connector (80) disposed on the case (72) of the watch (MO), and

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- the said connectors (80, 82) cooperate with each other in order to establish the electrical connections and being held in this position by holding means (88, 90).

5 6. A device according to Claim 3 in its application to a contactless module (MC) disposed in a case (108), characterised:

10 - in that the means of supporting the electrical power source comprise a watch (MO) having its own electrical power (70),

 - in that the first contact terminals comprise studs (104, 106) disposed on the bottom of the case of the module (MC), and

15 - in that the second contact terminals comprise studs (100, 102) disposed on the rear of the watch case,

20 - in that the means of connecting and holding the said first and second terminals comprise lugs (102, 104) carried by the case (108) of the module (MC), which snap into corresponding housings (116, 118) in the rear of the watch case.

 7. A device according to Claim 3 in its application to a contactless module (MC) disposed in a case (130), characterised:

25 - in that the means of supporting the electrical power source comprise a mobile telephone apparatus (TM) having studs (132) connected to a rechargeable electrical battery,

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- in that the second contact terminals comprise the studs (132) for recharging the battery of the mobile telephone apparatus (TM), and

- in that the first contact terminals comprise studs which cooperate with the recharging studs (132).

8. A device according to Claim 3, in its application to a contactless module (MC) carried by a card of the bank type (40), characterised:

- in that the means of supporting the electrical power source comprise a mobile telephone apparatus (138) having a connector (140) designed to cooperate with the contacts of a card of the bank type,

- in that the card supporting the contactless module (MC) comprises the first contact terminals,

- in that the connector (140) comprises the second contact terminals connected to the electrical power source, and

- in that the connection between the first and second contactless terminals is effected by inserting the card (40) in the connector (140).

9. A device according to any one of the preceding Claims 1 to 6, characterised in that the electrical power source is a removable battery.

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